

Title (en)

Control device discovery in networks having separate control and forwarding devices

Title (de)

Steuerungsvorrichtungsentdeckung in Netzwerken mit separaten Steuerungs- und Weiterleitungsvorrichtungen

Title (fr)

Découverte de dispositif de commande dans des réseaux ayant des dispositifs d'acheminement et de commande distincts

Publication

EP 2911348 A1 20150826 (EN)

Application

EP 15155929 A 20150220

Priority

US 201414188027 A 20140224

Abstract (en)

A Software Defined Network (SDN) includes a plurality of forwarding devices and a routing control device located separate from the forwarding devices. The routing control device, establishes paths to and from the network forwarding devices. Using such paths, forwarding devices send the routing control device information reflecting the topology of the network. Embodiments disclosed herein enable automatic discovery of the topology of the network and the paths to and from the routing control device.

IPC 8 full level

H04L 45/42 (2022.01); **H04L 45/02** (2022.01); **H04L 45/121** (2022.01); **H04L 45/50** (2022.01); **H04L 45/74** (2022.01)

CPC (source: EP US)

H04L 45/02 (2013.01 - EP US); **H04L 45/121** (2013.01 - US); **H04L 45/123** (2013.01 - US); **H04L 45/124** (2013.01 - US);
H04L 45/26 (2013.01 - US); **H04L 45/42** (2013.01 - US); **H04L 45/507** (2013.01 - US); **H04L 45/72** (2013.01 - US); **H04L 45/745** (2013.01 - US)

Citation (search report)

- [Y] US 2011261723 A1 20111027 - YAMATO JUNICHI [JP], et al
- [Y] EP 2608462 A1 20130626 - NEC CORP [JP]
- [Y] US 7466655 B1 20081216 - ZHAO FUYONG [US]
- [Y] US 2005111428 A1 20050526 - ORLIK PHILIP [US], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

US 8989199 B1 20150324; CA 2882535 A1 20150720; CA 2882535 C 20170110; CN 106063195 A 20161026; CN 106063195 B 20190528;
EP 2911348 A1 20150826; EP 2911348 B1 20171220; HK 1213383 A1 20160630; JP 2017506462 A 20170302; JP 6576006 B2 20190918;
US 10057158 B2 20180821; US 10673741 B2 20200602; US 2015244610 A1 20150827; US 2016285742 A1 20160929;
US 2018359174 A1 20181213; US 9374296 B2 20160621; WO 2015127107 A1 20150827

DOCDB simple family (application)

US 201414188027 A 20140224; CA 2882535 A 20150220; CN 201580010033 A 20150219; EP 15155929 A 20150220;
HK 16101147 A 20160201; JP 2016552529 A 20150219; US 2015016658 W 20150219; US 201514667407 A 20150324;
US 201615177170 A 20160608; US 201816105880 A 20180820